

# CERTAIN-TEED

# BUILT-UP ROOFS



CERTAIN-TEED PRODUCTS CORPORATION  
General Offices

New York, N. Y.

# INDEX AND CHART ON CERTAIN-TEED SPECIFICATION ROOFS

Years of Bond Guarantee	Specification No.	Underwriters' Rating	Page No.	Type of Deck	Roof Deck Incline per foot, in.	Surface or Finish	Construction		Weight of Materials per Square										Weight per Square Applied, lbs.
							No. of Layers of Material	No. of Moppings	Roofing Asphalt	Asphalt Primer	Asphalt Felt	Gravel	Sheathing Paper	Coal Tar Pitch	Tarred Felt	19 in. Selvage Edge Roofings			
ASPHALT FELT AND ASPHALT, MINERAL SURFACED																			
10	522	C	3	Wood	1" to 12"	Mineral Granules	One 30 lb. Asphalt Felt; Two 19" Selvage Edge Roofing.	2	60	...	32	.....	.....	.....	.....	88	180		
	523	C	4	Concrete	1" to 12"		One 15 lb. Asphalt Felt; Two 19" Selvage Edge Roofing.	3	90	8*	16	.....	.....	.....	.....	88	202		
15	525	C	4	Wood	1" to 12"	Mineral Granules	One 30 lb. and One 15 lb. Asphalt Felt; Two 19" Selvage Edge Roofing.	3	90	...	48	.....	.....	.....	.....	110	248		
	526	C	4	Concrete	1" to 12"		Two 15-lb. Asphalt Felt; Two 19" Selvage Edge Roofing.	4	120	8*	32	.....	.....	.....	.....	110	270		
ASPHALT FELT AND ASPHALT, GRAVEL OR SLAG SURFACED																			
10	508	A	5	Wood	½" to 3"	Gravel or Slag	One 30 lb. Asphalt Felt; One 15 lb. Asphalt Felt.	1‡	80	...	48	400♠	.....	.....	.....	.....	528†		
	509	A	5	Concrete	½" to 3"		One 30 lb. Asphalt Felt; One 15 lb. Asphalt Felt.	2‡	110	8*	48	400♠	.....	.....	.....	.....	566†		
15	518	A	5	Wood	½" to 3"	Gravel or Slag	One 30 lb. Asphalt Felt; Two 15 lb. Asphalt Felt.	2‡	110	...	64	400♠	.....	.....	.....	.....	574†		
	519	A	6	Concrete	½" to 3"		Three 15 lb. Asphalt Felt.	3‡	140	8*	48	400♠	.....	.....	.....	.....	596†		
20	520	A	6	Wood	½" to 3"	Gravel or Slag	One 30 lb. Asphalt Felt; Three 15 lb. Asphalt Felt.	3‡	140	...	80	400♠	.....	.....	.....	.....	620†		
	521	A	6	Concrete	½" to 3"		Four 15 lb. Asphalt Felt.	4‡	170	8*	64	400♠	.....	.....	.....	.....	642†		
ASPHALT FELT AND ASPHALT, SMOOTH SURFACE																			
10	506	C	7	Wood	½" to 12"	Smooth	One 30 lb. Asphalt Felt; Two 15 lb. Asphalt Felt.	3	90	..	64	.....	.....	.....	.....	.....	154		
	507	C	7	Concrete	½" to 12"		One 30 lb. Asphalt Felt; Two 15 lb. Asphalt Felt.	4	120	8*	64	.....	.....	.....	.....	.....	192		
TARRED FELT AND PITCH, GRAVEL OR SLAG SURFACE																			
15	517	A	7	Wood	Up to 2"	Gravel or Slag	One No. 20 Sheathing Paper; Four 15 lb. Tarred Felt.	2‡	.....	.....	.....	400♠	5	125	64	.....	594†		
	514	A	8	Concrete	Up to 2"		Three 15 lb. Tarred Felt.	3‡	.....	.....	.....	400♠	...	175	48	.....	623†		
20	513	A	8	Wood	Up to 2"	Gravel or Slag	One No. 20 Sheathing Paper; Five 15 lb. Tarred Felt.	3‡	.....	.....	.....	400♠	5	150	80	.....	635†		
	512	A	8	Concrete	Up to 2"		Four 15 lb. Tarred Felt.	4‡	.....	.....	.....	400♠	...	200	64	.....	664†		
OTHER CERTAIN-TEED ROOFS																			
SPECIAL ROOF DECKS																			
10, 15, 20	527	...	....	Insulation precast gypsum, etc.	½" to 9"	As may be specified	As may be specified										As may be specified		

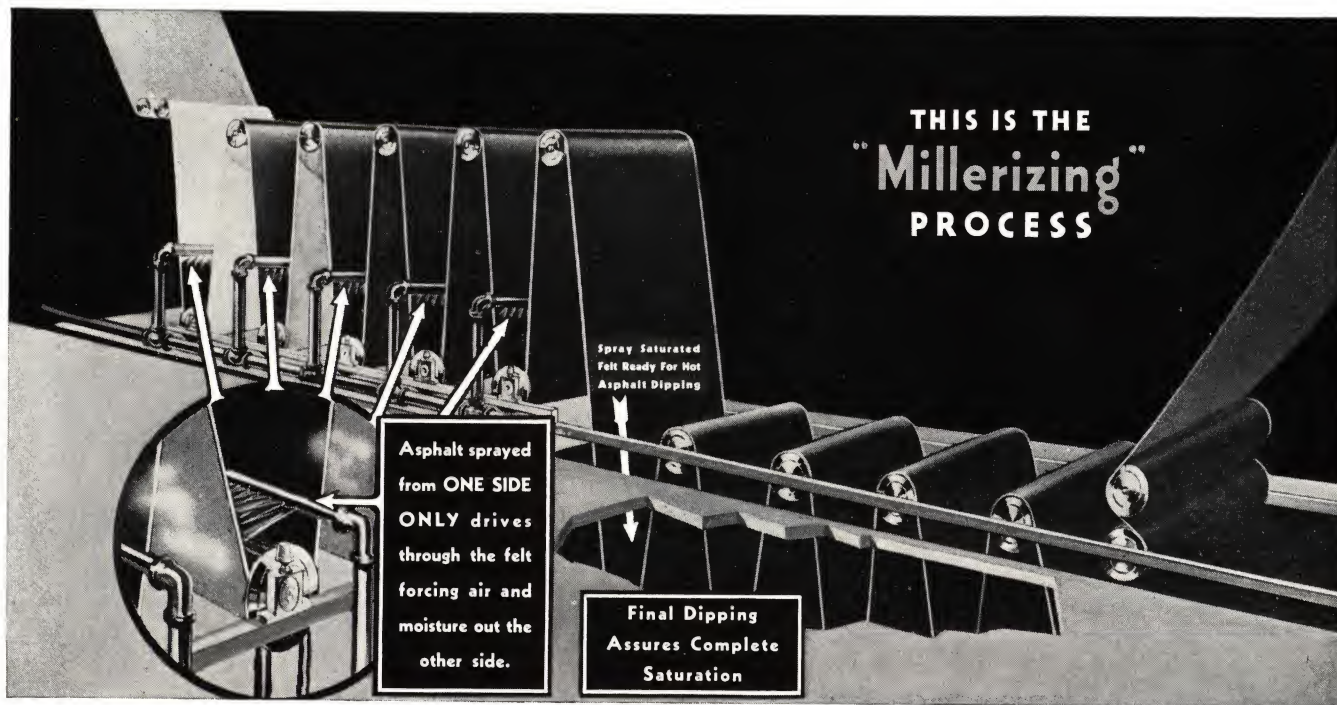
\*Approximate weight of 1 gallon of Certain-teed Liquid Asphalt Primer.

‡Also one poured coat for top surfacing of gravel or slag.

♠If slag is specified instead of gravel, use 300 lbs. of slag.

†Weight of gravel surfaced roof. Slag surfaced roof weighs 100 lbs. less.





## "Millerizing" Process for Saturating Asphalt Felt

The best type of saturated felt for built-up Roofs or Roofing is a quality felt that is uniformly and completely saturated with a pure bitumen asphalt.

Certain-teed felts are scientifically saturated by an exclusive, controlled "Millerizing" Process which insures uniformity as well as maximum saturation. The saturation is applied to one side of the sheet over and again until it penetrates through to the other side.

On its way through, the asphalt pushes out all air and moisture, filling all the hollow spaces and penetrating and saturating every fibre in the sheet. (See the illustration above for further description of the "Millerizing" Process.)

By means of this scientific method of saturation, it is possible to insure *uniform and complete saturation of every sheet* of Certain-teed saturated felt.

## CERTAIN-TEED BUILT-UP ROOF SPECIFICATIONS

### ASPHALT FELT AND ASPHALT — MINERAL SURFACED

#### Over Wood Sheathing or Precast Gypsum—SPECIFICATION NO. 522

##### Roof Incline 1" to 12" per Foot

##### BILL OF MATERIALS PER 100 SQUARE FEET

##### Asphalt Felt:

1 layer Certain-teed 30 lb. Asphalt Felt..... 32 lbs.

##### Asphalt:

2 moppings Certain-teed "STEEP" Roofing Asphalt. 60 lbs.

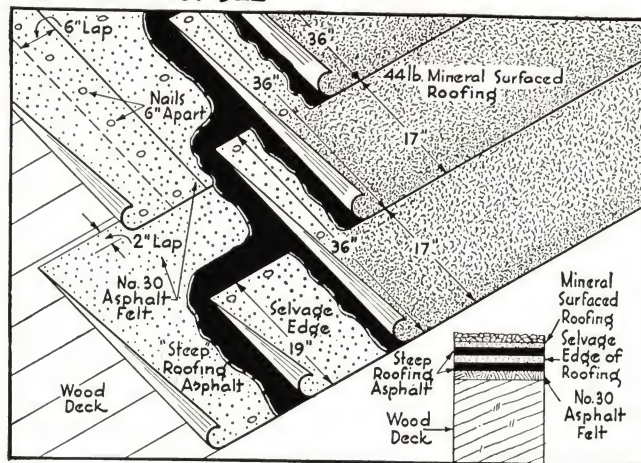
##### Nails:

For wood, use 1" Simplex Nails or 1" Large Head Roofing Nails. For Gypsum, use 1½" cut nails through flat tin discs.

##### Surfacing:

2 layers No. 44 Certain-teed 19" Selvage Edge Mineral Surfaced Roofing ..... 88 lbs.

Total Weight of Roof ..... 180 lbs.



10 YEAR ROOF

#### CONDENSED BUILT-UP ROOF SPECIFICATION NO. 522

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Wood Sheathing or Pre-cast Gypsum in accordance with Certain-teed Built-up Roof Specification No. 522.

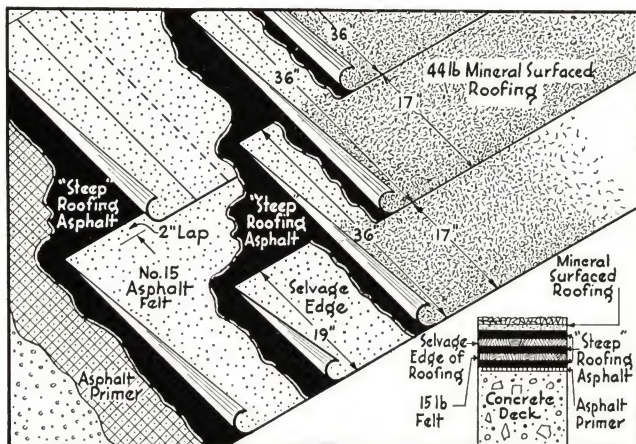
Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available. Consult the nearest Certain-teed sales office for details.



# ASPHALT FELT AND ASPHALT—MINERAL SURFACED (Continued)

## Over Concrete or Poured Gypsum—SPECIFICATION NO. 523

10 YEAR ROOF



### Roof Incline 1" to 12" per Foot

#### BILL OF MATERIALS PER 100 SQUARE FEET

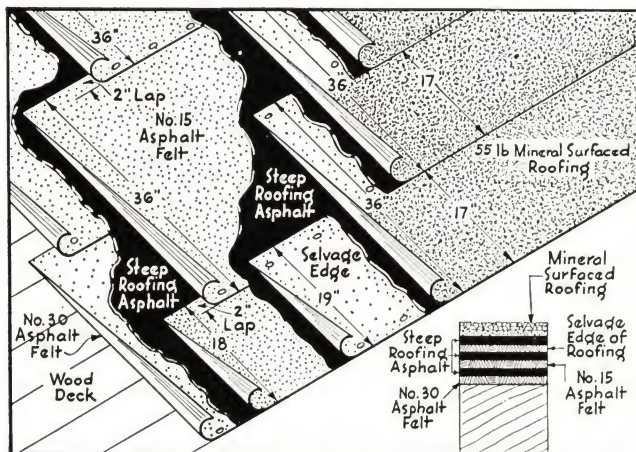
Primer:	
1 coat Certain-teed Liquid Asphalt Primer.....	8 lbs.
Asphalt Felt:	
1 layer Certain-teed 15 lb. Asphalt Felt.....	16 lbs.
Asphalt:	
3 moppings Certain-teed "STEEP" Roofing Asphalt .....	90 lbs.
Surfacing:	
2 layers Certain-teed 44 lb. 19" Selvage Edge Mineral Surfaced Roofing .....	88 lbs.
Total Weight of Roof.....	202 lbs.

### CONDENSED BUILT-UP ROOF SPECIFICATION NO. 523

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Concrete or Poured Gypsum in accordance with Certain-teed Built-up Roof Specification No. 523. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.

## Over Wood Sheathing or Precast Gypsum—SPECIFICATION NO. 525

15 YEAR ROOF



### Roof Incline 1" to 12" per Foot

#### BILL OF MATERIALS PER 100 SQUARE FEET

Asphalt Felt:	
1 layer of Certain-teed 30 lb. Asphalt Felt.....	32 lbs.
1 layer of Certain-teed 15 lb. Asphalt Felt.....	16 lbs.
Asphalt:	
3 moppings Certain-teed "STEEP" Roofing Asphalt..	90 lbs.
Nails:	
For Wood, use 1" Simplex Nails or 1" Large Head Roofing Nails. For Gypsum, use 1½" cut nails through flat tin discs.	
Surfacing:	
2 layers Certain-teed 55 lb. 19" Selvage Edge Mineral Surfaced Roofing .....	110 lbs.
Total Weight of Roof.....	248 lbs.

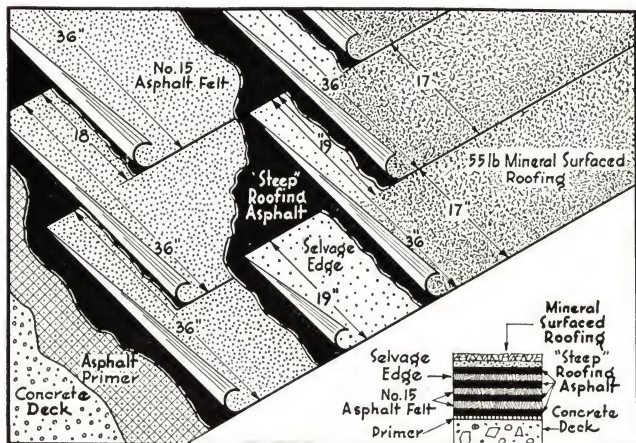
### CONDENSED BUILT-UP ROOF SPECIFICATION NO. 525

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Wood Sheathing or Precast Gypsum in accordance with Certain-teed Built-up Roof Specification No. 525.

Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available. Consult the nearest Certain-teed sales office for details.

## Over Concrete or Poured Gypsum—SPECIFICATION NO. 526

15 YEAR ROOF



### Roof Incline 1" to 12" per Foot

#### BILL OF MATERIALS PER 100 SQUARE FEET

Primer:	
1 coat Certain-teed Asphalt Primer.....	8 lbs.
Asphalt Felt:	
2 layers Certain-teed 15 lb. Asphalt Felt.....	32 lbs.
Asphalt:	
4 moppings Certain-teed "STEEP" Roofing Asphalt. 120 lbs.	
Surfacing:	
2 layers Certain-teed 55 lb. 19" Selvage Edge Mineral Surfaced Roofing .....	110 lbs.
Total Weight of Roof.....	270 lbs.

### CONDENSED BUILT-UP ROOF SPECIFICATION NO. 526

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Concrete or Poured Gypsum in accordance with Certain-teed Built-up Roof Specification No. 526. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.



**ASPHALT FELT AND ASPHALT—GRAVEL OR SLAG SURFACED****Over Wood Sheathing or Precast Gypsum—SPECIFICATION NO. 508****Roof Incline  $\frac{1}{2}$ " to 3" per Foot****BILL OF MATERIALS PER 100 SQUARE FEET****Asphalt Felt:**

1 layer Certain-teed 30 lb. Asphalt Felt.....	32 lbs.
1 layer Certain-teed 15 lb. Asphalt Felt.....	16 lbs.

**Asphalt:**

1 mopping Certain-teed "FLAT" Roofing Asphalt....	30 lbs.
1 flood coat Certain-teed "FLAT" Roofing Asphalt..	50 lbs.

**Nails:**

For Wood, use 1" Simplex Nails or 1" Large Head Roofing Nails. For Gypsum, use  $1\frac{1}{2}$ " cut nails through flat tin discs.

**Surfacing:**

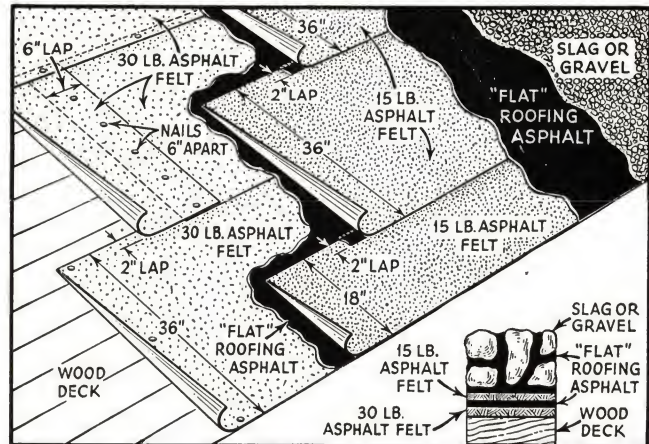
Gravel, standard $\frac{1}{4}$ " to $\frac{5}{8}$ " size.....	400 lbs.
Slag, standard $\frac{1}{4}$ " to $\frac{5}{8}$ " size.....	300 lbs.

**Total Weight of Roof:**

Gravel Surfaced ..... 528 lbs.; Slag Surfaced..... 428 lbs.

**CONDENSED BUILT-UP ROOF  
SPECIFICATION NO. 508**

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Wood Sheathing or Precast Gypsum in accordance with Certain-teed Built-up Roof Specification No.



10 YEAR ROOF

508. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.

**Over Concrete or Poured Gypsum—SPECIFICATION NO. 509****Roof Incline  $\frac{1}{2}$ " to 3" per Foot****BILL OF MATERIALS PER 100 SQUARE FEET****Primer:**

1 coat Certain-teed Liquid Asphalt Primer.....	8 lbs.
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**Asphalt Felt:**

1 layer Certain-teed 30 lb. Asphalt Felt.....	32 lbs.
1 layer Certain-teed 15 lb. Asphalt Felt.....	16 lbs.

**Asphalt:**

2 moppings Certain-teed "FLAT" Roofing Asphalt..	60 lbs.
1 flood coat Certain-teed "FLAT" Roofing Asphalt..	50 lbs.

**Surfacing:**

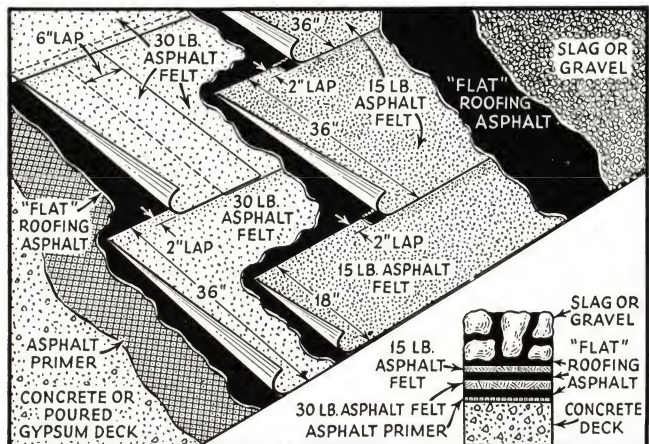
Gravel, standard $\frac{1}{4}$ " to $\frac{5}{8}$ " size.....	400 lbs.
Slag, standard $\frac{1}{4}$ " to $\frac{5}{8}$ " size.....	300 lbs.

**Total Weight of Roof:**

Gravel Surfaced ..... 566 lbs.; Slag Surfaced..... 466 lbs.

**CONDENSED BUILT-UP ROOF  
SPECIFICATION NO. 509**

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Concrete or Poured Gypsum in accordance with Certain-teed Built-up Roof Specification No. 509.



10 YEAR ROOF

Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.

**Over Wood Sheathing or Precast Gypsum—SPECIFICATION NO. 518****Roof Incline  $\frac{1}{2}$ " to 3" per Foot****BILL OF MATERIALS PER 100 SQUARE FEET****Asphalt Felt:**

1 layer Certain-teed 30 lb. Asphalt Felt.....	32 lbs.
2 layers Certain-teed 15 lb. Asphalt Felt.....	32 lbs.

**Asphalt:**

2 moppings Certain-teed "FLAT" Roofing Asphalt..	60 lbs.
1 flood coat Certain-teed "FLAT" Roofing Asphalt..	50 lbs.

**Nails:**

For Wood, use 1" Simplex Nails or 1" Large Head Roofing Nails. For Gypsum, use  $1\frac{1}{2}$ " cut nails through flat tin discs.

**Surfacing:**

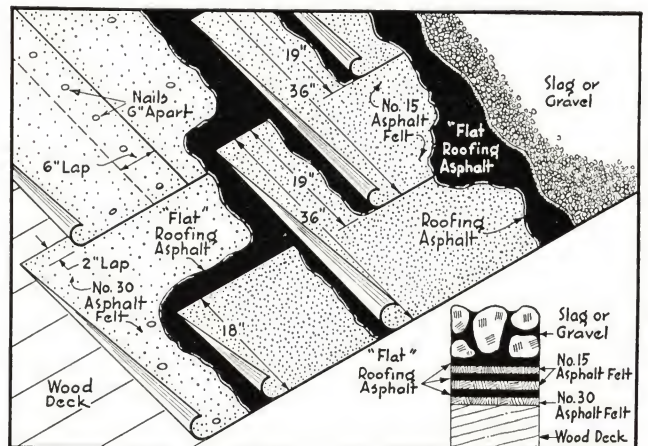
Gravel, standard $\frac{1}{4}$ " to $\frac{5}{8}$ " size.....	400 lbs.
Slag, standard $\frac{1}{4}$ " to $\frac{5}{8}$ " size.....	300 lbs.

**Total Weight of Roof:**

Gravel Surfaced..... 574 lbs.; Slag Surfaced..... 474 lbs.

**CONDENSED BUILT-UP ROOF  
SPECIFICATION NO. 518**

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Wood Sheathing or Precast Gypsum in accordance with Certain-teed Built-up Roof Specification No.



15 YEAR ROOF

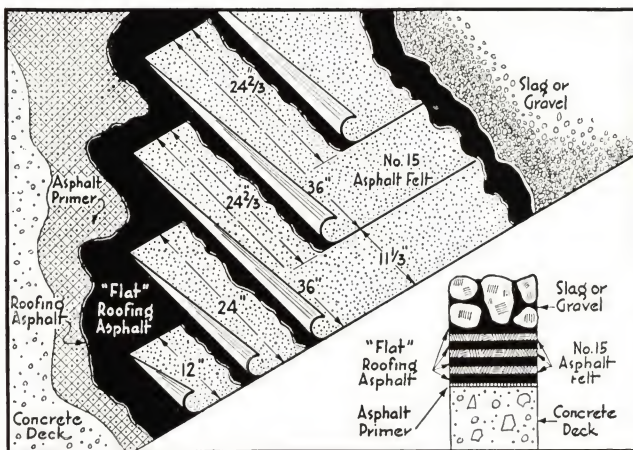
518. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.



**ASPHALT FELT AND ASPHALT — GRAVEL OR SLAG SURFACED (Continued)**

**Over Concrete or Poured Gypsum—SPECIFICATION NO. 519**

15 YEAR ROOF



**Roof Incline 1/2" to 3" per Foot**

**BILL OF MATERIALS PER 100 SQUARE FEET**

<b>Asphalt Primer:</b>	
1 coat Certain-teed Liquid Asphalt Primer.....	8 lbs.
<b>Asphalt Felt:</b>	
3 layers Certain-teed 15 lb. Asphalt Felt.....	48 lbs.
<b>Asphalt:</b>	
3 moppings Certain-teed "FLAT" Roofing Asphalt..	90 lbs.
1 flood coat Certain-teed "FLAT" Roofing Asphalt..	50 lbs.
<b>Surfacing:</b>	
Gravel, standard 1/4" to 5/8" size.....	400 lbs.
Slag, standard 1/4" to 5/8" size.....	300 lbs.
<b>Total Weight of Roof:</b>	
Gravel Surfaced 596 lbs.; Slag Surfaced.....	496 lbs.

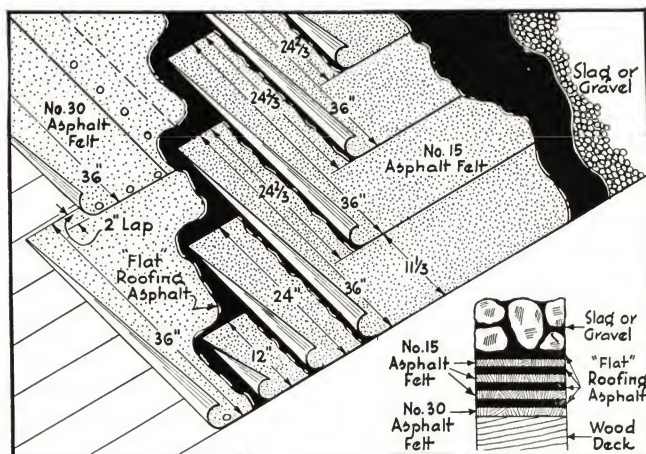
**CONDENSED BUILT-UP ROOF SPECIFICATION NO. 519**

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Concrete or Poured Gypsum in accordance with Certain-teed Built-up Roof Specification No. 519.

Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.

**Over Wood Sheathing or Precast Gypsum—SPECIFICATION NO. 520**

20 YEAR ROOF



**Roof Incline 1/2" to 3" per Foot**

**BILL OF MATERIALS PER 100 SQUARE FEET**

<b>Asphalt Felt:</b>	
1 layer Certain-teed 30 lb. Asphalt Felt.....	32 lbs.
3 layers Certain-teed 15 lb. Asphalt Felt.....	48 lbs.
<b>Asphalt:</b>	
3 moppings Certain-teed "FLAT" Roofing Asphalt..	90 lbs.
1 flood coat Certain-teed "FLAT" Roofing Asphalt..	50 lbs.
<b>Nails:</b>	
For wood, use 1" Simplex Nails or 1" Large Head Roofing Nails. For Gypsum, use 1 1/2" cut nails through flat tin discs.	
<b>Surfacing:</b>	
Gravel, standard 1/4" to 5/8" size.....	400 lbs.
Slag, standard 1/4" to 5/8" size.....	300 lbs.
<b>Total Weight of Roof:</b>	
Gravel Surfaced 620 lbs.; Slag Surfaced.....	520 lbs.

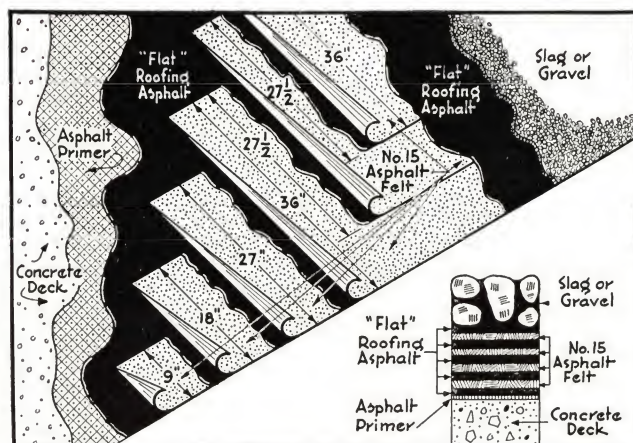
**CONDENSED BUILT-UP ROOF SPECIFICATION NO. 520**

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt to be applied over Wood Sheathing or Precast Gypsum in accordance with Certain-teed Built-up Roof Specification No. 520.

Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.

**Over Concrete or Poured Gypsum—SPECIFICATION NO. 521**

6 20 YEAR ROOF



**Roof Incline 1/2" to 3" per Foot**

**BILL OF MATERIALS PER 100 SQUARE FEET**

<b>Asphalt Primer:</b>	
1 coat Certain-teed Liquid Asphalt Primer.....	8 lbs.
<b>Asphalt Felt:</b>	
4 layers Certain-teed 15 lb. Asphalt Felt.....	64 lbs.
<b>Asphalt:</b>	
4 moppings Certain-teed "FLAT" Roofing Asphalt..	120 lbs.
1 flood coat Certain-teed "FLAT" Roofing Asphalt..	50 lbs.
<b>Surfacing:</b>	
Gravel, standard 1/4" to 5/8" size.....	400 lbs.
Slag, standard 1/4" to 5/8" size.....	300 lbs.
<b>Total Weight of Roof:</b>	
Gravel Surfaced 642 lbs.; Slag Surfaced.....	542 lbs.

**CONDENSED BUILT-UP ROOF SPECIFICATION NO. 521**

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Concrete or Poured Gypsum in accordance with Certain-teed Built-up Specification No. 521.

Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.



**ASPHALT FELT AND ASPHALT — SMOOTH SURFACE****Over Wood Sheathing or Precast Gypsum—SPECIFICATION NO. 506****Roof Incline  $\frac{1}{2}$ " to 12" per Foot****BILL OF MATERIALS PER 100 SQUARE FEET****Asphalt Felt:**

- 1 layer Certain-teed 30 lb. Asphalt Felt..... 32 lbs.  
2 layers Certain-teed 15 lb. Asphalt Felt..... 32 lbs.

**Asphalt:**

- 3 moppings Certain-teed "STEEP" Roofing Asphalt. 90 lbs.

**Nails:**

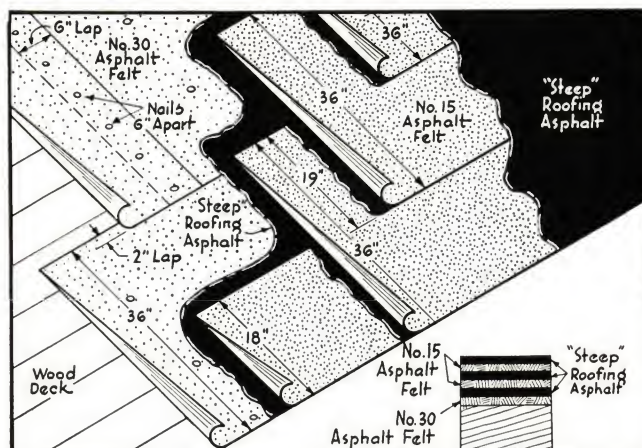
- For Wood, use 1" Simplex Nails or 1" Large Head Roofing Nails. For Gypsum, use  $1\frac{1}{2}$ " cut nails through flat tin discs.

**Total Weight of Roof:**

- Applied Roof..... 154 lbs.

**CONDENSED BUILT-UP ROOF  
SPECIFICATION NO. 506**

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Wood Sheathing or Precast Gypsum in accordance with Certain-teed Built-up Roof Specification No.



506. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.

10 YEAR ROOF

**Over Concrete or Poured Gypsum—SPECIFICATION NO. 507****Roof Incline  $\frac{1}{2}$ " to 12" per Foot****BILL OF MATERIALS PER 100 SQUARE FEET****Primer:**

- 1 coat Certain-teed Liquid Asphalt Primer..... 8 lbs.

**Asphalt Felt:**

- 1 layer Certain-teed 30 lb. Asphalt Felt..... 32 lbs.  
2 layers Certain-teed 15 lb. Asphalt Felt..... 32 lbs.

**Asphalt:**

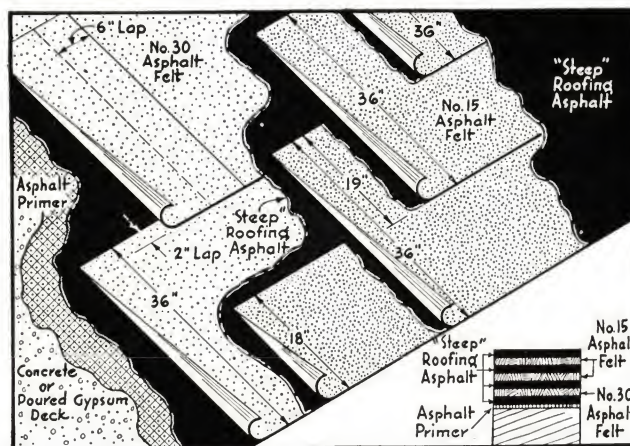
- 4 moppings Certain-teed "STEEP" Roofing Asphalt. 120 lbs.

**Total Weight of Roof:**

- Applied Roof..... 192 lbs.

**CONDENSED BUILT-UP ROOF  
SPECIFICATION NO. 507**

Certain-teed Asphalt Felt and Certain-teed Roofing Asphalt shall be applied over Concrete or Poured Gypsum in accordance with Certain-teed Built-up Roof Specification No. 507. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.



10 YEAR ROOF

**TARRED FELT AND PITCH — GRAVEL OR SLAG SURFACED****Over Wood Sheathing or Precast Gypsum—SPECIFICATION NO. 517****Roof Incline Up to 2" per Foot****BILL OF MATERIALS PER 100 SQUARE FEET****Sheathing Paper:**

- 1 layer Certain-teed Sheathing Paper (Unsaturated) 5 lbs.

**Tarred Felt:**

- 4 layers of No. 15 Certain-teed Tarred Felt..... 64 lbs.

**Pitch:** Certain-teed Coal Tar Pitch..... 125 lbs.**Nails:**

- For Wood, use 1" Simplex Nails or 1" Large Head Roofing Nails. For Gypsum, use  $1\frac{1}{2}$ " cut nails through flat tin discs.

**Surfacing:**

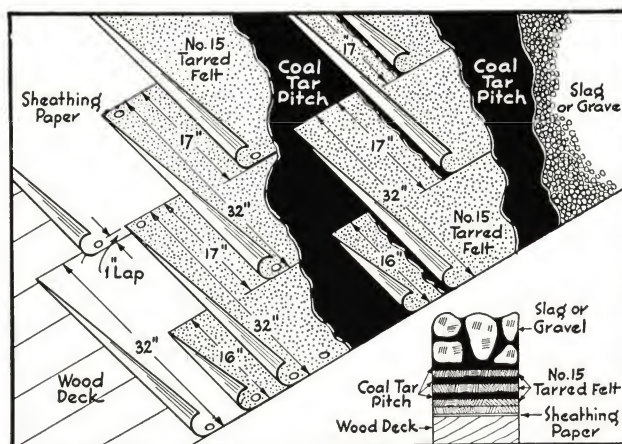
- Gravel, standard  $\frac{1}{4}$ " to  $\frac{5}{8}$ " size..... 400 lbs.  
Slag, standard  $\frac{1}{4}$ " to  $\frac{5}{8}$ " size..... 300 lbs.

**Total Weight of Roof:**

- Gravel Surfaced..... 594 lbs.; Slag Surfaced..... 494 lbs.

**CONDENSED BUILT-UP ROOF  
SPECIFICATION NO. 517**

Certain-teed Tarred Felt and Certain-teed Coal Tar Pitch shall be applied over Wood Sheathing or Precast Gypsum in accordance with Certain-teed Built-up Roof Specification No.



15 YEAR ROOF

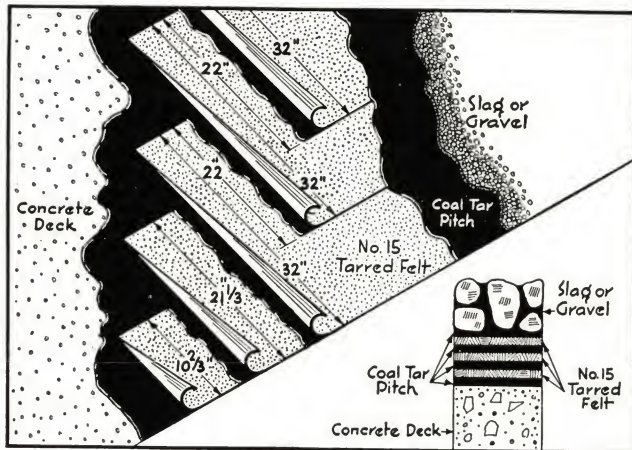
517. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.



**TARRED FELT AND PITCH — GRAVEL OR SLAG SURFACED (Continued)**

**Over Concrete or Poured Gypsum—SPECIFICATION NO. 514**

15 YEAR ROOF



**Roof Incline Up to 2" per Foot**

**BILL OF MATERIALS PER 100 SQUARE FEET**

**Tarred Felt:**  
3 layers of Certain-teed No. 15 Tarred Felt..... 48 lbs.

**Pitch:**  
Certain-teed Coal Tar Pitch..... 175 lbs.

**Surfacing:**  
Gravel, standard 1/4" to 5/8" size..... 400 lbs.  
Slag, standard 1/4" to 5/8" size..... 300 lbs.

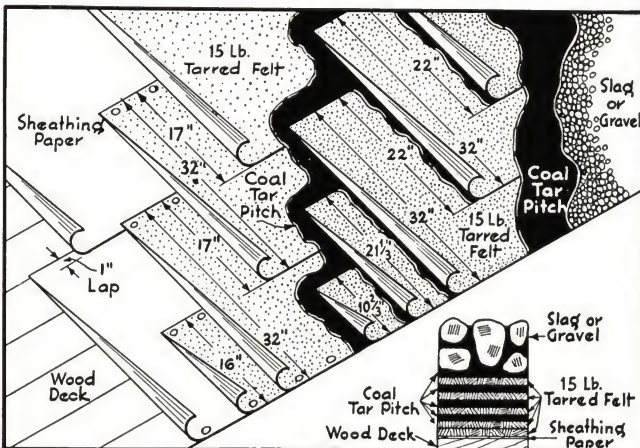
**Total Weight of Roof:**  
Gravel Surfaced..... 623 lbs.; Slag Surfaced..... 523 lbs.

**CONDENSED BUILT-UP ROOF SPECIFICATION NO. 514**

Certain-teed Tarred Felt and Certain-teed Coal Tar Pitch shall be applied over Concrete or Poured Gypsum in accordance with Certain-teed Roof Specification No. 514. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.

**Over Wood Sheathing or Precast Gypsum—SPECIFICATION NO. 513**

20 YEAR ROOF



**Roof Incline Up to 2" per Foot**

**BILL OF MATERIALS PER 100 SQUARE FEET**

**Sheathing Paper:**  
1 layer Certain-teed Sheathing Paper (Unsaturated) . 5 lbs.

**Tarred Felt:**  
5 layers No. 15 Certain-teed Tarred Felt..... 80 lbs.

**Pitch:**  
Certain-teed Coal Tar Pitch..... 150 lbs.

**Nails:**  
For Wood, use 1" Simplex Nails or 1" Large Head Roofing Nails. For Gypsum, use 1 1/2" cut nails through flat tin discs.

**Surfacing:**  
Gravel, standard 1/4" to 5/8" size..... 400 lbs.  
Slag, standard 1/4" to 5/8" size..... 300 lbs.

**Total Weight of Roof:**  
Gravel Surfaced..... 635 lbs.; Slab Surfaced..... 535 lbs.

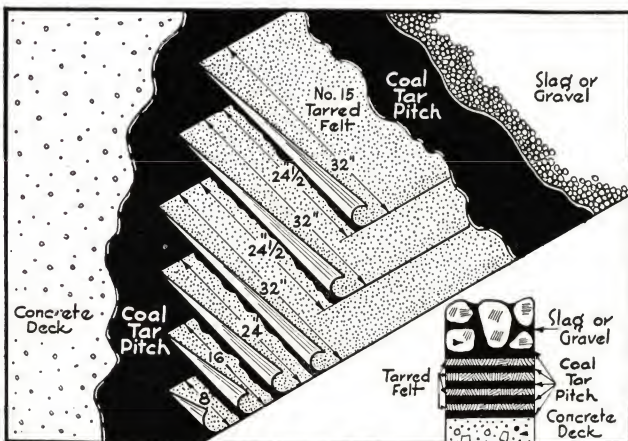
**CONDENSED BUILT-UP ROOF SPECIFICATION NO. 513**

Certain-teed Tarred Felt and Certain-teed Coal Tar Pitch shall be applied over Wood or Precast Gypsum in accordance with Certain-teed Built-up Roof Specification No. 513. Surety

Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.

**Over Concrete or Poured Gypsum—SPECIFICATION NO. 512**

8 20 YEAR ROOF



**Roof Incline Up to 2" per Foot**

**BILL OF MATERIALS PER 100 SQUARE FEET**

**Tarred Felt:**  
4 layers of Certain-teed No. 15 Tarred Felt..... 64 lbs.

**Pitch:**  
Certain-teed Coal Tar Pitch..... 200 lbs.

**Surfacing:**  
Gravel, standard 1/4" to 5/8" size..... 400 lbs.  
Slag, standard 1/4" to 5/8" size..... 300 lbs.

**Total Weight of Roof:**  
Gravel Surfaced..... 664 lbs.; Slag Surfaced..... 564 lbs.

**CONDENSED BUILT-UP ROOF SPECIFICATION NO. 512**

Certain-teed Tarred Felt and Certain-teed Coal Tar Pitch shall be applied over Concrete or Poured Gypsum in accordance with Certain-teed Built-up Roof Specification No. 512. Surety Bond will be furnished on jobs where Certain-teed Roof Inspection Service is available.



# BASE AND COUNTER FLASHINGS

For Certain-teed 20 and 15 Year Built-up Roofs

## SPECIFICATION NO. 524

### GENERAL

Certain-teed Flashing Specifications are approved and specified for use in connection with Certain-teed Built-up Roofs. Special requirements not covered by these specifications may be eligible for approval upon submission of details to the CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y.

**Surety Bond**—When these flashings are used in connection with Certain-teed Bonded Built-up Roofs, the CERTAIN-TEED PRODUCTS CORPORATION will issue a Surety Bond on the flashing for the same period of years as the built-up Roofing Bond is issued. Write for details.

**Materials and Labels**—All roofing materials used in Certain-teed flashings shall be as manufactured or approved by the CERTAIN-TEED PRODUCTS CORPORATION and shall be delivered to the job in their original packages bearing the manufacturer's registered labels.

**Cant Strips**—Cant strips shall be of material which will permit nailing, shall extend up vertical surfaces at least 4 in. and the face of the cant strip shall have an incline of approxi-

mately 45 degrees. No vents or other pipes or braces shall be constructed through nor within 12 in. of the cant strip.

**Raggle Blocks or Forms**—Raggle blocks or forms shall be built into the walls so that the lower edge of the opening is approximately 6 in. above the roof deck surface.

**Preparation of Surfaces**—All concrete, brick and other masonry surfaces to be covered with Certain-teed Base and Counter Flashing, also including the surfaces of the opening in raggle blocks and forms, shall be dry and free from dust and dirt and shall be given one continuous coat of Certain-teed Asphalt Primer.

Masonry walls to be covered with Certain-teed Flashings shall be properly waterproofed at the top and sides or through wall to prevent seepage behind flashing.

**End Laps**—All felts and roofing used in construction of base flashing shall be lapped at least 6 in. in the direction of the downward slope of the roof.

**Note:** Complete the specification by adding one of the following Types (A, B, C or E).

### SPECIFICATION NO. 524—TYPE A

#### Mineral Surfaced Felt Base Flashing; Metal Counter Flashing

**Roof Base**—All felts and cap sheets of roofing shall be carried over the cant strips, turned up 2 in. on, but not sealed to, all vertical surfaces, and shall be nailed 8 in. on centers along a line 1½ in. down from the top edge of the cant strip.

**Base Flashing**—After priming as specified, the surfaces to be covered with Certain-teed Flashings shall be uniformly mopped with hot "STEEP" asphalt (heated to approximately 400° F.) into which, while hot, shall be embedded three layers of 15-lb. Asphalt Felt. Each sheet shall be embedded without wrinkles or buckles in the hot asphalt so that no place shall felt touch felt, and shall start at a horizontal line 5 in. above the top edge of the cant strip and shall extend down and out horizontally on the roof 2 in., 4 in. and 6 in. respectively.

The surface of these felts shall then be uniformly mopped with hot "STEEP" asphalt (heated to approximately 400° F.) into which, while hot, shall be embedded one layer of 90 lb. Mineral Surfaced Roofing in the hot asphalt so that at no place shall felt touch felt. This Mineral Surfaced Roofing shall extend over the cant strip and out horizontally 6 in. on the roof and be securely nailed along its top edge every 8 in. into the

brick mortar joints. The finish roof coat of gravel or slag and asphalt or pitch shall then be carried over the base flashing to the bottom of the cant.

**Counter Flashing**—The counter flashings shall be 3 lb. lead or 16 oz. cornice temper copper with both edges folded or re-turned upon themselves at least ½ in. and with ends lapped 4 in. but not soldered. The lower edge shall overlap the base flashing at least 4 in. and shall be parallel to the roof line.

The top edge shall be entered at least 1½ in. into the first brick joint above the counter flashing, shall be secured with metal wedges not more than 12 in. apart, pointed solidly in place and the reglet shall then be filled with Plastic Cement.

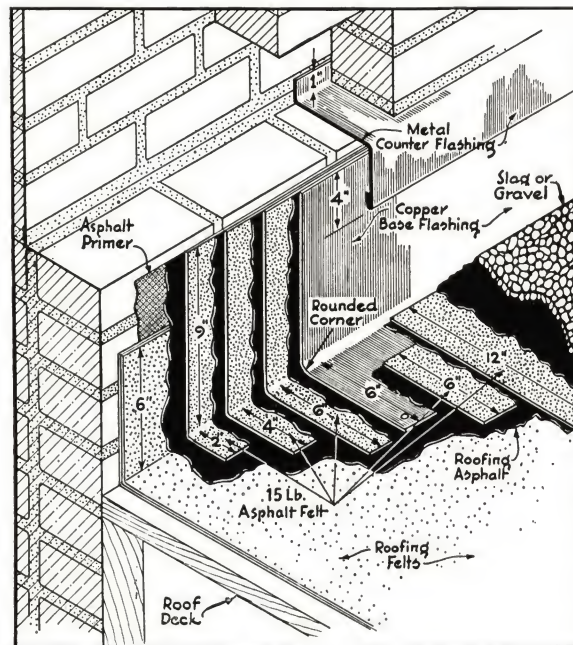
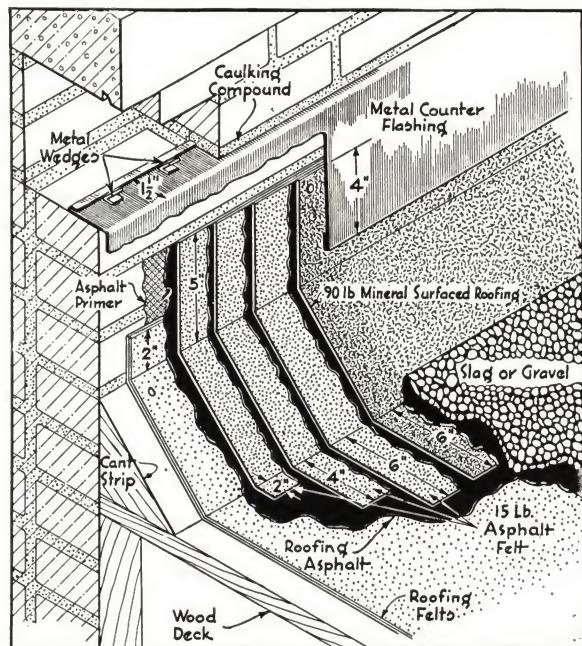
### SPECIFICATION NO. 524—TYPE B

#### Metal Base Flashing; Metal Counter Flashing

**Roof Base**—All layers of felt used in the construction of the Built-up Roof shall be turned up 6 in. on, but not sealed to, all vertical surfaces.

**Base Flashing**—After priming as specified, the surfaces to be covered with Certain-teed Flashings shall be uniformly mopped with hot "STEEP" Asphalt (heated to approximately 400°

NO. 524—TYPE A FLASHING



NO. 524—TYPE B FLASHING



# BASE AND COUNTER FLASHINGS (Continued)

## SPECIFICATION NO. 524—TYPE B (Continued)

F.) into which, while hot, shall be embedded three layers of 15 lb. Asphalt Felt. Each sheet shall be embedded without wrinkles or buckles in the hot asphalt so that at no place shall felt touch felt, and shall start at a horizontal line 9 in. above the roof deck and shall extend down and out horizontally on the roof 2 in., 4 in. and 6 in., respectively. Felts shall be nailed along their top edge every 8 in. into the brick mortar joints.

The surface of these felts shall then be uniformly mopped with hot "STEEP" asphalt (heated to approximately 400° F.) into which, while hot, shall be embedded sheets of 3 lb. lead or 16 oz. cornice temper copper laid with 4 in. end laps mopped in hot asphalt but not soldered. This metal base flashing shall extend down and out horizontally 6 in. on the roofing and shall be securely nailed 8 in. on centers along a line 1 in. in from the bottom edge into nailing strip on roof deck. The angle formed in the flashing shall not be sharply bent but shall be rounded.

Two layers of 15 lb. Asphalt Roofing Felt, 6 in. and 12 in. wide, respectively, shall be laid to project equally on each side of bottom edge of base flashing. These felts shall be laid without wrinkles or buckles in hot asphalt and shall be covered with a uniform mopping of hot asphalt on completion. Over this shall then be applied the finished coat of the roof.

**Counter Flashing**—The counter flashings shall be 3 lb. lead or 16 oz. cornice tempered copper with both edges folded or re-turned upon themselves at least  $\frac{1}{2}$  in. and with ends lapped 4 in. but not soldered. The lower edge shall overlap the flashing at least 4 in. and shall be parallel to the roof line.

The top edge of the flashing shall be turned up at right angles to form a lip 1 in. high back of the first course of brick above the counter flashing and shall be built in as the masonry work progresses.

## SPECIFICATION NO. 524—TYPE C

### Mineral Surfaced Felt Base and Counter Flashing

**Roof Base**—All felts and cap sheets of roofing shall be carried over the cant strips, turned up 2 in. on, but not sealed to, all vertical surfaces, and shall be nailed 8 in. on centers along a line  $1\frac{1}{2}$  in. down from the top edge of the cant strip.

**Base Flashing**—After priming as specified, the surface to be covered with Certain-teed Flashings shall be uniformly mopped with hot "STEEP" asphalt (heated to approximately 400° F.) into which, while hot, shall be embedded three layers of

15 lb. Asphalt Felt. Each sheet shall be embedded without wrinkles or buckles in the hot asphalt so that at no place shall felt touch felt, and shall start at a horizontal line 5 in. above the top edge of the cant strip and shall extend down and out horizontally on the roof 2 in., 4 in. and 6 in., respectively. Felts shall be nailed along their top edge every 8 in. into the brick mortar joints. The wall surface above the edge of these felts and extending onto the top of the wall 6 in. under the coping shall be mopped with hot "STEEP" asphalt (heated to approximately 400° F.) into which, while hot, shall be embedded one layer of 90 lb. Mineral Surfaced Roofing in the hot asphalt so that at no place shall felt touch felt. This Mineral Surfaced Roofing shall extend from a point 2 in. from the outer face of the wall, down the wall surface over the cant strip and out 6 in. horizontally on the roof. Over this shall then be applied the finished coat of the roof to the bottom of the cant.

If the wall is more than 36 in. high measured from the roof deck, a sheet of 30 lb. Asphalt Felt shall be mopped over the wall and cant strip before the 90 lb. Mineral Surfaced Roofing is mopped in place.

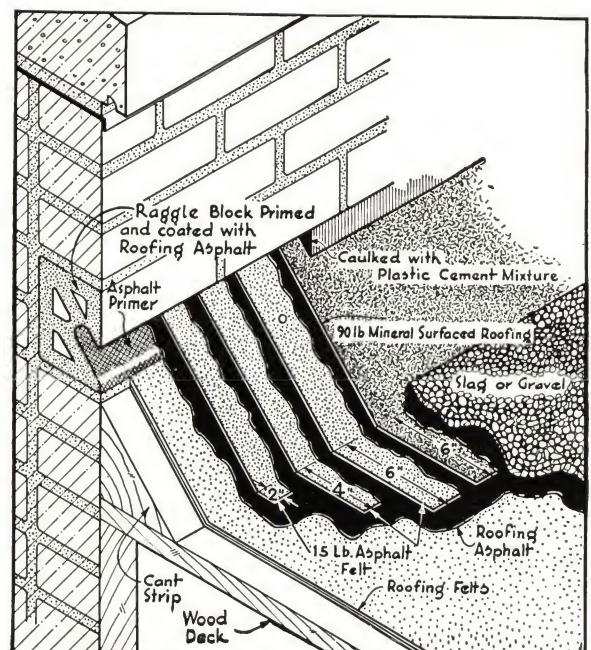
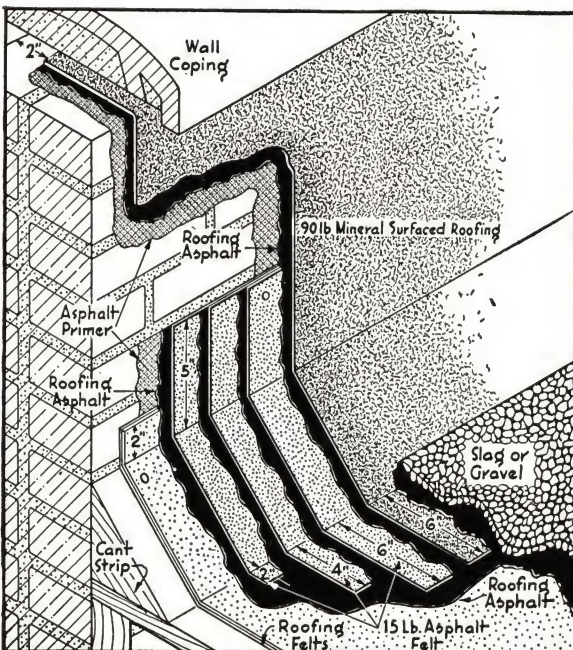
## SPECIFICATION NO. 524—TYPE E Flashing with Raggle Blocks or Metal Forms

**Roof Base**—All felts and cap sheets of roofing shall be carried over the cant strips and cut off evenly on a line 1 in. from the lower edge of the opening in the raggle block.

**Base Flashing**—After priming the raggle blocks as specified, apply Certain-teed Plastic Cement in the openings and uniformly mop the surfaces to be covered with Certain-teed Flashings with hot "STEEP" asphalt (heated to approximately 400° F.) into which, while hot, shall be embedded three layers of 15 lb. Asphalt Felt. Each sheet shall be embedded without wrinkles or buckles in the hot asphalt so that at no place shall felt touch felt, and shall start from the top of the opening in the raggle block and shall extend down and out horizontally on the roof 2 in., 4 in. and 6 in., respectively. Felts shall be nailed every 8 in. along a line  $1\frac{1}{2}$  in. down from the top edge of the cant strip, shall then be uniformly mopped with hot "STEEP" asphalt (heated to approximately 400° F.) into which, while hot, shall be embedded one layer of 90 lb. Mineral Surfaced Roofing in the hot asphalt so that at no place shall felt touch felt.

After flashing has been otherwise completed the opening in the raggle block shall be carefully caulked with Plastic Cement with approximately 25% Portland Cement.

NO. 524—TYPE C FLASHING



NO. 524—TYPE E FLASHING



## For Certain-teed 10 Year Built-up Roofs

## SPECIFICATION NO. 528

Refer to General Note Below Specification No. 524

## SPECIFICATION NO. 528—TYPE G

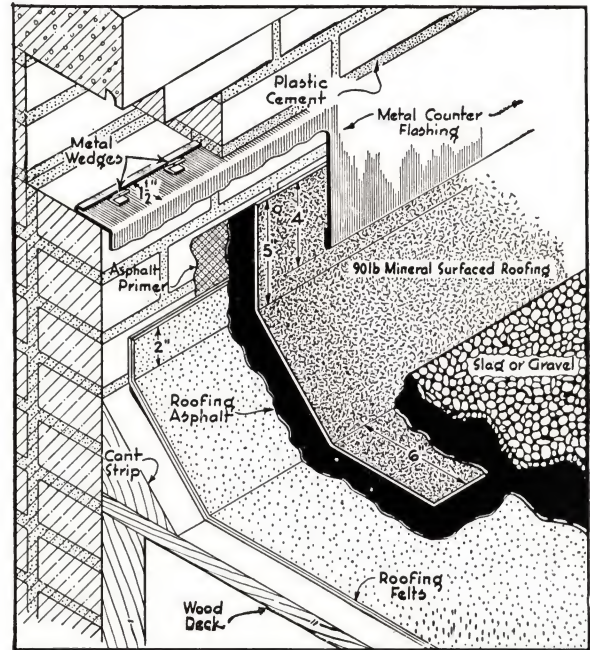
## Felt Base Flashing; Fabric Counter Flashing

**Roof Base**—All felts and cap sheets of roofing shall be carried over the cant strips, turned up 2 in. on, but not sealed to, all vertical surfaces and shall be nailed on 8-in. centers along a line 1½ in. down from top edge of cant strip.

**Base Flashing**—Embed two layers of 15 lb. Asphalt Felt in hot "STEEP" asphalt extending from a horizontal line 5 in. above the top edge of the cant strip and out on the roofing 4 in. and 6 in. respectively. Nail the top edges of the felts every 8 in. Cover the bottom edge and all vertical laps with a 6 in. strip of 15 lb. Asphalt Felt embedded in hot "STEEP" asphalt or Plastic Cement. Then apply a uniform coat of Certain-teed Plastic Cement over the base flashing from the bottom of the cant up and on the primed wall 5 in. above the top of the base flashing.

**Cap Flashing**—In the Plastic Cement embed a 6 in. wide strip of Asphalt Saturated Fabric extending 3 in. above and below the top edge of the base flashing. Nail the top edge of the fabric every 8 in. Then cover the fabric strip with a uniform coat of Plastic Cement.

**Completing the Flashing**—After flashings have been otherwise completed, the finish roof coat on roof deck shall be carried over the base flashing to the bottom of cant.



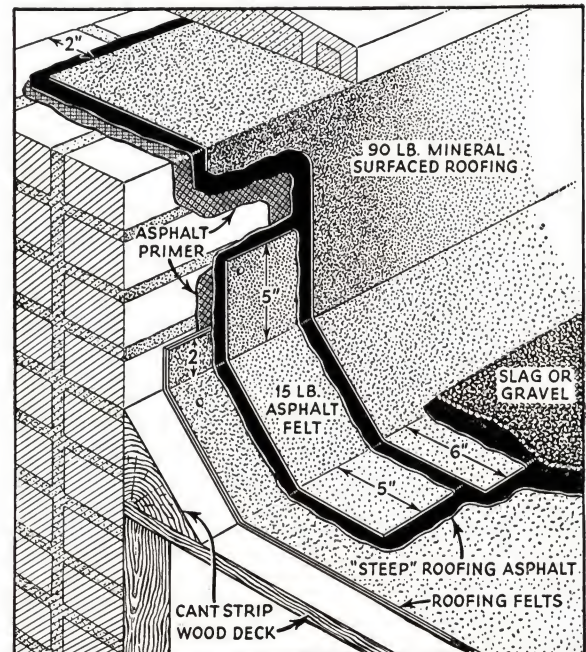
NO. 528—TYPE H FLASHING

## SPECIFICATION NO. 528—TYPE J

## Mineral Surfaced Roofing Under Copping

**Base Flashing**—Embed a layer of 15 lb. Asphalt Felt in hot "STEEP" asphalt starting in a horizontal line 5 in. above the top edge of the cant strip and extending out horizontally 6 in. on the roofing. Then embed one layer of 90 lb. Mineral Surfaced Roofing in hot "STEEP" asphalt, covering the wall on top to a point within 2 in. of the outer face of the wall, and down the inner face of the wall and out 6 in. horizontally on the roof. Set coping in place in usual manner.

**Completing the Flashing**—After flashings have been otherwise completed, the finish roof coat on roof deck shall be carried over the base flashing to the bottom of cant.



NO. 528—TYPE J FLASHING

## SPECIFICATION NO. 528—TYPE H

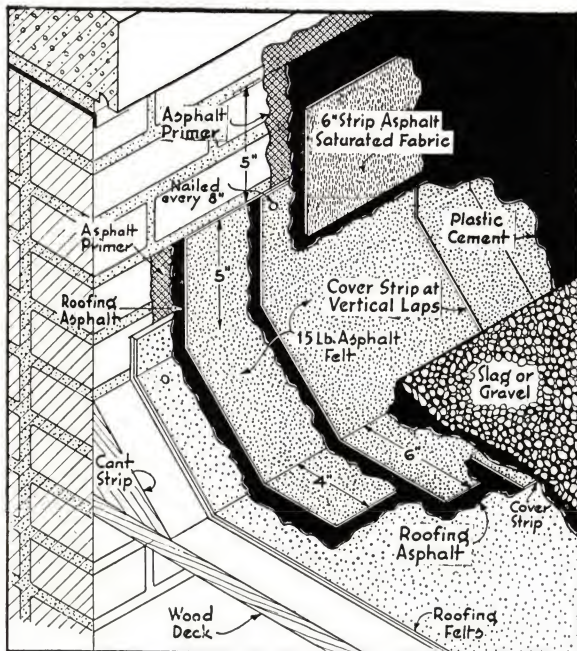
## Mineral Surfaced Felt Base; Metal Counter Flashing

**Base Flashing**—Embed one layer of 90 lb. Mineral Surfaced Roofing in hot "STEEP" asphalt, starting in a horizontal line 5 in. above the top edge of the cant strip and extending out horizontally 6 in. on the roofing. Nail the top edge every 8 in.

**Counter Flashing**—Shall be 3 lb. Lead or 16 oz. Copper with the top edge re-turned upon itself at least ½ in. The top edge of the Counter Flashing shall be entered at least 1½ in. into the first brick joint above the base flashings and secured with metal wedges 12 in. apart, pointed solidly in place with Plastic Cement. The lower edge of the Counter Flashing shall overlap the flashing at least 4 in. End laps shall be 4 in. but not soldered.

**Completing the Flashing**—After the flashings have been otherwise completed, the finish roof coat on roof deck shall be carried over the base flashing to the bottom of cant.

NO. 528—TYPE G FLASHING





**CERTAIN-TEED**

**PRODUCTS**

**FOR BETTER BUILT-UP ROOFS**

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ASPHALT PRIMER  
 FLAT ROOFING ASPHALT  
 STEEP ROOFING ASPHALT  
 20 POUND SHEATHING PAPER  
 15 POUND ASPHALT FELT  
 30 POUND ASPHALT FELT  
 44 POUND 19" SELVAGE EDGE MINERAL SURFACED ROOFING  
 55 POUND 19" SELVAGE EDGE MINERAL SURFACED ROOFING  
 90 POUND MINERAL SURFACED ROOFING  
 PLASTIC CEMENT  
 ASBESTOS ROOF COATING  
 ASPHALT SATURATED FABRIC  
 COAL TAR PITCH  
 15 POUND TARRED FELT

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**CERTAIN-TEED PRODUCTS CORPORATION**

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